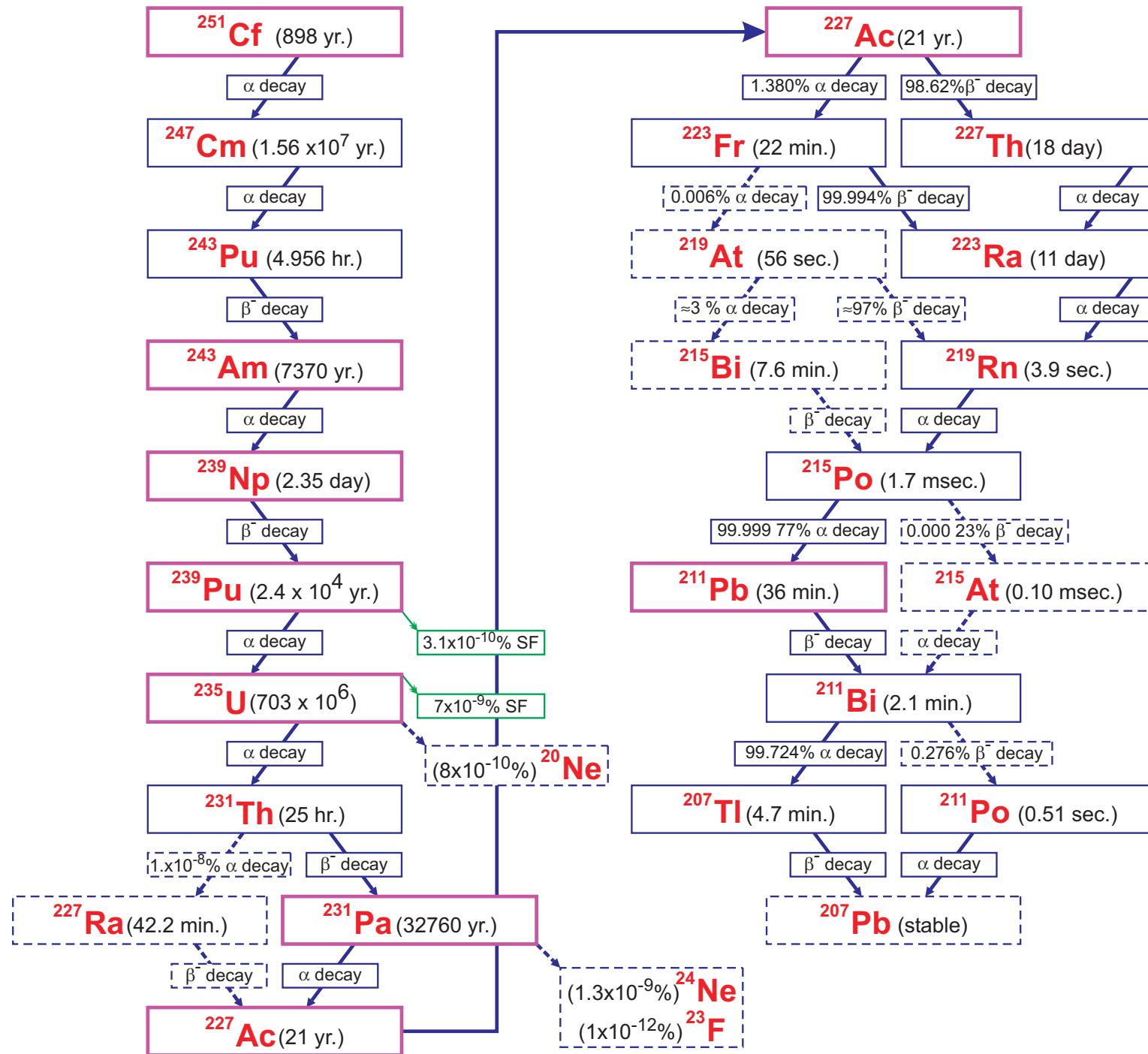
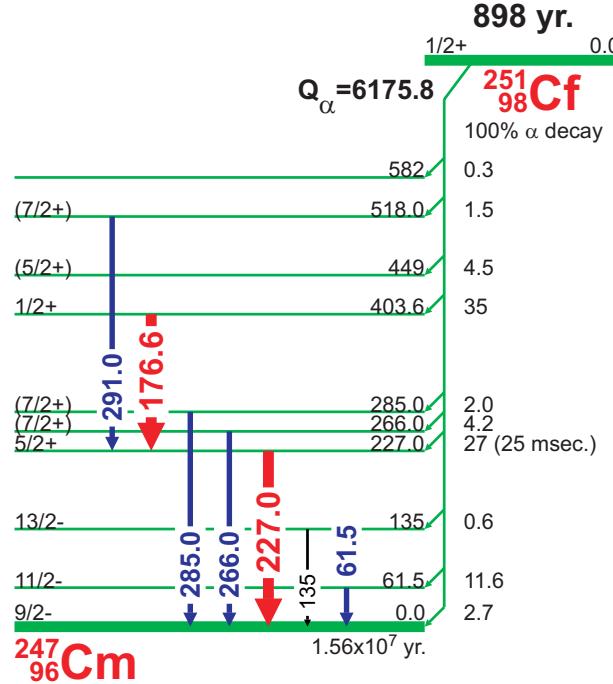


Simplified Decay Chain

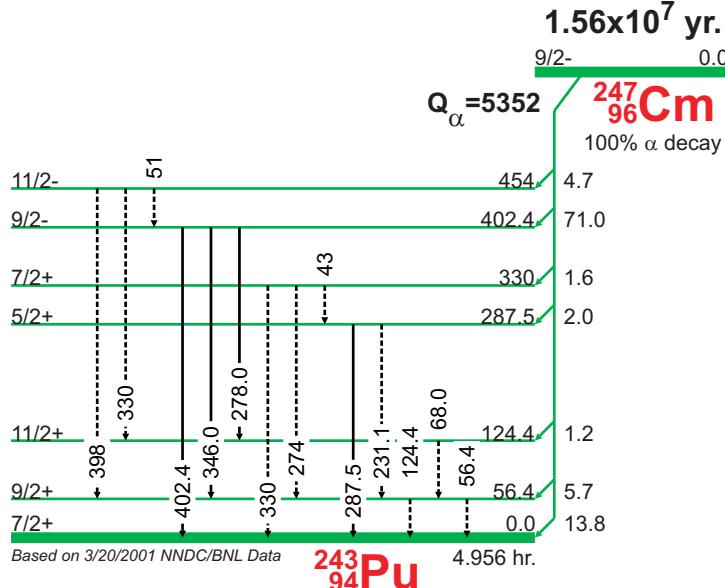


^{251}Cf (898 yr.) Decay Scheme



Based on 3/20/2001 NNDC/BNL Data

^{247}Cm (1.56×10^7 yr.) Decay Scheme



Based on 3/20/2001 NNDC/BNL Data

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ^{251}Cf		Half Life: 898(44) yr			
E_{γ} (keV)	σE_{γ}	${}^{\textcircled{1}} I_{\gamma}$	${}^{\textcircled{2}} \sigma I_{\gamma}$	Level	
61.5	0.3	0.56	0.22	61.5	α
68 ?		0.2	\approx		α
73 ?		0.3	\approx		α
83 ?		0.1	\approx		α
135		0.1	\approx	135	α
144 ?		0.1	\approx		α
154 ?		0.2	\approx		α
176.6	0.1	17.7	1.5	403.6	α
214		0.2	\approx		α
227.0	1.0	6.3	1.1	227.0	α
255 ?		0.2	\approx		α
262 ?		0.2	\approx		α
266.0	0.3	0.5	0.2	266.0	α
270 ?		0.2	\approx		α
285.0	0.2	1.4	0.3	285.0	α
291.0	0.3	0.4	0.2	518.0	α

 E_{γ} , σE_{γ} , I_{γ} , σI_{γ} Levels from ENSDF Database as of March 20, 2001① These I_{γ} are per 100 Decays of ^{251}Cf .

② Normalization factor is 1.0, and its uncertainty is taken to be 0.0.

GAMMA-RAY ENERGIES AND INTENSITIES

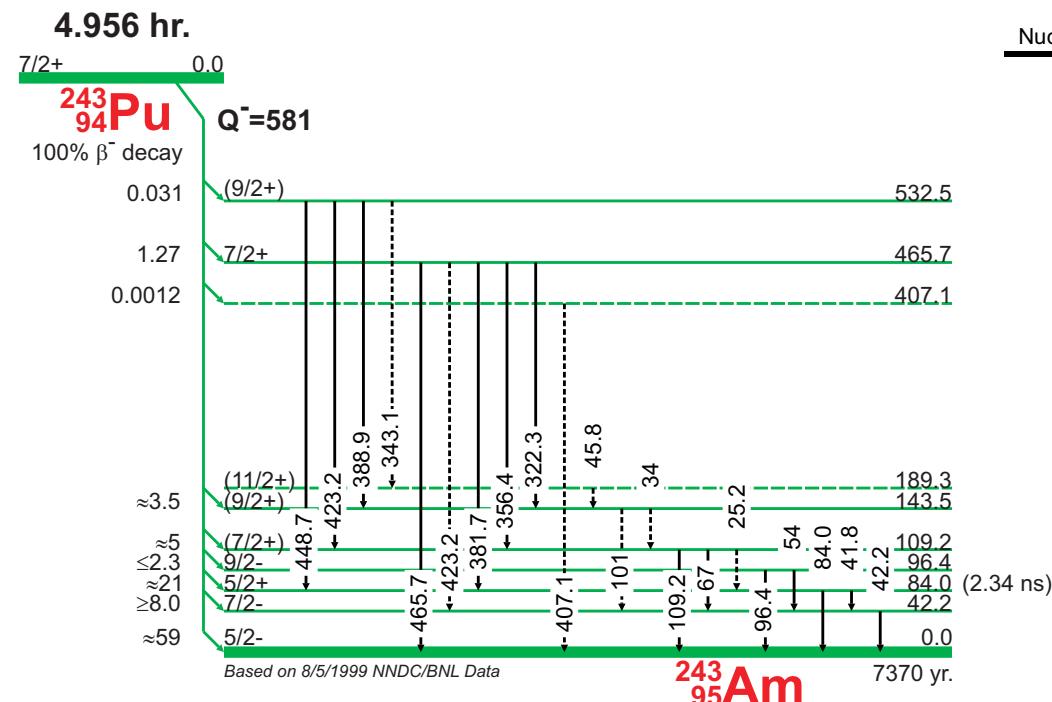
Nuclide: ^{247}Cm		Half Life: 1.56×10^7 (5) yr.			
E_{γ} (keV)	σE_{γ}	${}^{\textcircled{1}} I_{\gamma}$	${}^{\textcircled{2}} \sigma I_{\gamma}$	Level	
43	6			330	α
51	7			454	α
56.4	1.0			56.4	α
68.0	1.2			124.4	α
124.4	1.0			124.4	α
231.1	1.3	0.036	0.010	287.5	α
274	6			330	α
278.0	0.8	3.4	0.7	402.4	α
287.5	0.7	2.0	0.3	287.5	α
330	6			330	α
330	7			454	α
346.0	0.8	1.3	\approx	402.4	α
398	7			454	α
402.4	0.5	72	6	402.4	α

 E_{γ} , σE_{γ} , I_{γ} , σI_{γ} Levels from ENSDF Database as of March 20, 2001① These I_{γ} are per 100 Decays of ^{247}Cm .

② Normalization factor is 1.0, and its uncertainty is taken to be 0.0.



^{243}Pu (4.956 hr.) Decay Scheme



GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: **^{243}Pu**

Half Life: 4.956(3) hr.

E_γ (keV)	σE_γ	I_γ	σI_γ	Level
25.2	0.3			109.2
34	\approx			143.5
41.8	0.2	0.76	0.07	84.0
42.2	0.5	0.076	\approx	42.2
45.8				189.3?
54	1	0.02	\leq	96.4
67	1	0.23	0.12	109.2
84.0	0.2	23.0		84.0
96.4	0.4	0.014	0.002	96.4
101.3		0.025	0.021	143.5
109.2	0.2	0.161	0.016	109.2
322.3	0.3	0.028	0.002	465.7
343.1	0.5	0.00150	\approx	532.5
356.4	0.3	0.133	0.012	465.7
381.7	0.3	0.564	0.046	465.7
388.9	0.3	0.0048	0.0007	532.5
407.1	0.5	0.0012	0.0005	407.1?
423.2	0.2			465.7
423.2	0.3	0.0131	0.0014	532.5
448.7	0.5	0.0002	\approx	532.5
465.7	0.5	0.0002	\leq	465.7

 $E_\gamma \sigma E_\gamma I_\gamma \sigma I_\gamma$ Levels from ENSDF Database as of March 20, 2001① These I_γ are per 100 Decays of ^{243}Pu .② For total uncertainty add 8.7% systematic component in quadrature,
based on the normalization factor 0.23(2)